

## ABSTRACT OF THE DISCLOSURE

In a communications system having a modem pool including native modems operating at steady state, a method is provided for modem wake-up at steady-state including measuring modem performance, activating a foreign modem at substantially the foreign modem's maximum data rate and at a power level that is below the foreign modem's normal operational power level, allocating a NEXT cancellation filter as a probe filter, iteratively, until the foreign modem is operating at its normal operational power level, or the modem performance of any of the native modems has degraded subsequent to activating the foreign modem, canceling, using the probe filter, NEXT caused to a native modem by the foreign modem, measuring modem performance, and, if the modem performance of any of the native modems has not degraded, increasing the foreign modem's power level, and, if the modem performance of any of the native modems has degraded, deactivating the foreign modem.